

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000559**Date Inspected:** 25-Apr-2008**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai

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|---------------------------------|--|-----------|------------|---------------------------------|----------------------|-----------|------------|
| Quality Control Contact: | ABF Paint Supervisor William (B) | | | Quality Control Present: | Yes | No | |
| Material transfer: | Yes | No | N/A | Sampled Items: | Yes | No | N/A |
| Stock Transfer: | Yes | No | N/A | OK to Cut: | Yes | No | N/A |
| Rebar Test Witness: | Yes | No | N/A | Delayed/Cancelled: | Yes | No | N/A |
| Other: | Surface Preparation and Coatings Application | | | | | | |
| Bridge No: | 34-0006 | | | Component: | OBG 1BW, Misc. Metal | | |
| Bid Item: | 79, 80, 81 | | | Lot No: | B226 | | |

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Galvanizing

Caltrans QA Coatings Inspectors received a verbal notification for to attend a joint inspection with ABF and ZPMC QC for galvanizing of handrails. Upon arrival at the galvanizing facility the handrails removed from the acid bath and rinsed in the water baths. The handrails were then dipped into the galvanizing bath. After removal from the galvanize the handrails were dipped in 2 different water baths to cool down the steel. A few minor drips and repairs are required after the dipping process. The Handrails looked pretty good.

OBG 1BW

Caltrans QA Coatings Inspectors received a Notice of Inspection for to attend a joint inspection with ABF and ZPMC QC for abrasive blast surface preparation on the exterior surface. VT inspection was performed by Caltrans Welding Inspector Eric Prue. After the grinding was performed the areas were re-blasted and the primer coating applied.

Temporary Tower

105 pieces rejected by ABF due to fabrication defects, arc gouges, cuts in steel, no grinding of flame cut edges or edge conditioning. Slag from flame cutting was not removed prior to sending the materials to the blast shop. The ABF steel supervisor called in the ZPMC fabricator supervisor to point out the problems.

Miscellaneous Metal

88 pieces of X202C quadrate splice plates were abrasive blasted. The edges required grinding. 72 pieces of X201E

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quadrate splice plates were abrasive blasted. The edges required grinding. 12 pieces of cable support CTS4D and 3 pieces of CTS4E were rejected by ABF. The surface preparation did not meet the Contract required SSPC SP 10 visual cleanliness standard. 8 pieces of counterweight segments were re-blasted on the interior due to excessive application of the Interzinc 22. 2 pieces of lamp post cover plate LB1 and LB2 accessories were abrasive blasted. After all the corrections the pieces were abrasive blasted to meet the SSPC SP 10 standard and primer applied. Fabrication on assembled components of the OBG's are not complete. Coating damage requiring re-blast is expected.



Summary of Conversations:

There were no relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

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| Inspected By: | Jordan,Don | Quality Assurance Inspector |
| Reviewed By: | Carreon,Albert | QA Reviewer |
